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(54) Title: REDUCED VOLUME, HIGH CONDUCTANCE PROCESS CHAMBER

(57) Abstract: A vacuum processing apparatus (10) including a process chamber (20) having a plurality of pumping ports (50), and a plurality of pumping cells (60) each connected to a respective pumping port (50) of the plurality of pumping ports (50). The plurality of pumping ports (50) is preferably located on a lower wall (26) of the process chamber (20) adjacent to a process chamber (20) volume. A process chamber (20) is also provided that includes a lower wall (26) and a side wall (28), where the side wall (28) has a height of about four inches. The vacuum processing apparatus (10) further includes a chamber liner (27) configured to displace open volume within the process chamber (20).

WO 2004/012229 A3

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/19884

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C23C 16/509, 16/50; C23F 1/00; H01L 21/306

US CL : 118/723E, 723I, 723R, 719; 156/345.31, 345.32, 345.43, 345.48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 118/723E, 723I, 723R, 719; 156/345.31, 345.32, 345.43, 345.48

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Examiner's Assisted Search Tools (EAST)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6355109 B2 (OKABE et al) 12 MARCH 2002, column 6, lines 20-65	1-9, 11-20, 22-30, 32-42
X		10, 21, 31, 43

☐ Further documents are listed in the continuation of Box C.

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